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## **Abstract**

The present invention is related to an apparatus and a method for improving the quality of printing. The reference timings are adjusted by random values to decrease the cyclic unevenness of images associated with the conventional technique. The random values may be generated by the apparatus itself or may be received from an external device, such as a personal computer. The distance between two adjacent dots changes, and the unevenness of images is scattered to provide a higher quality of printing.